

Appendix I.

Example of Configuration File

```
# xParams.cfg 2001/10/15 JSG

# Any part of a line after a "#" is a comment
# This file sets the xDisplay defaults

# define the mode

#MODE = 103
MODE = 170

# define the number of fields to be displayed

NFIELDS = 11
#NFIELDS170 = 11
#NFIELDS = 12

BEAMS2AVERAGE = 2

# define the nfields sent to xDisplay

F1031 = Eh.R
F1032 = Eh.I
F1033 = Ev.R
F1034 = Ev.I
F1035 = PwSh
F1036 = PwSv
F1037 = VPab
F1038 = WPab

F1 = VShD
F2 = WShD
F3 = CShD
F4 = IShD
F5 = PShD
F6 = ZShD
F7 = ZShC
F8 = ZdrD
F9 = ZdrC
F10 = PHdp
F11 = RnRC
#F12 = Rhv0
```

```
#F1 = VShD  
#F2 = WShD  
#F3 = CShD  
#F4 = IShD  
#F5 = ISvD  
#F6 = PShD  
#F7 = ZShD  
#F8 = ZShC  
#F9 = ZdrD  
#F10 = ZdrC  
#F11 = PHdp  
#F12 = RnRC
```

```
# define max and max for the four types of scans for all 32 of the available  
# fields
```

```
# NOTE: for mode 170 the following numbers refer to the corresponding  
# fields as shown below
```

```
# 1 = VShD  
# 2 = VShU  
# 3 = VSvD  
# 4 = VSvU  
# 5 = WShD  
# 6 = WShU  
# 7 = WSvD  
# 8 = WSvU  
# 9 = CShD  
# 10 = CShU  
# 11 = CSvD  
# 12 = CSvU  
# 13 = IShD  
# 14 = ISvD  
# 15 = PShD  
# 16 = PShU  
# 17 = PSvD  
# 18 = PSvU  
# 19 = ZShD  
# 20 = ZShU  
# 21 = ZSvD  
# 22 = ZSvU  
# 23 = ZShC  
# 24 = ZSvC  
# 25 = ZdrD  
# 26 = ZdrC  
# 27 = DVvh
```

```

# 28 = PHdp
# 29 = RnRt
# 30 = RnRC
# 31 = Rhv0
# 32 = DSmC

#ScaleMinBscan1 = -25.      # for mode 170 VShD
#ScaleMinBscan2 = -25.      # VShU
ScaleMinBscan1 = -15.        # VShD
ScaleMinBscan2 = -15.        # VShU
ScaleMinBscan3 = -25.        # VSvD
ScaleMinBscan4 = -25.        # VSvU
ScaleMinBscan5 = 0.          #WShD
ScaleMinBscan6 = 0.          #WShU
ScaleMinBscan7 = 0.          #WSvD
ScaleMinBscan8 = 0.          #WSvU
ScaleMinBscan9 = 0.          #CShD
ScaleMinBscan10 = 0.         #CShU
ScaleMinBscan11 = 0.         #CSvD
ScaleMinBscan12 = 0.         #CSvU
ScaleMinBscan13 = -45.       #IShD
ScaleMinBscan14 = -45.       #ISvD
ScaleMinBscan15 = -140.      #PShD
ScaleMinBscan16 = -140.      #PShU
ScaleMinBscan17 = -140.      #PSvD
ScaleMinBscan18 = -140.      #PSvU
ScaleMinBscan19 = 0.          #ZShD
ScaleMinBscan20 = 0.          #ZShU
ScaleMinBscan21 = 0.          #ZSvD
ScaleMinBscan22 = 0.          #ZSvU
ScaleMinBscan23 = 0.          #ZShC
ScaleMinBscan24 = 0.          #ZSvC
ScaleMinBscan25 = -2.         # ZdrD
ScaleMinBscan26 = -2.         #ZdrC
ScaleMinBscan27 = -1.         #DVvh
ScaleMinBscan28 = -10.        # Phdp
ScaleMinBscan29 = 0.          #RnRt
ScaleMinBscan30 = 0.          #RnRC
ScaleMinBscan31 = 0.          #Rhv0
ScaleMinBscan32 = 0.          #DSmC

#ScaleMaxBscan1 = 25.
#ScaleMaxBscan2 = 25.
ScaleMaxBscan1 = 15.
ScaleMaxBscan2 = 15.
ScaleMaxBscan3 = 45.

```

```
ScaleMaxBscan4 = 45.  
ScaleMaxBscan5 = 10.  
ScaleMaxBscan6 = 10.  
ScaleMaxBscan7 = 10.  
ScaleMaxBscan8 = 10.  
ScaleMaxBscan9 = 1.  
ScaleMaxBscan10 = 1.  
ScaleMaxBscan11 = 1.  
ScaleMaxBscan12 = 1.  
ScaleMaxBscan13 = 15.  
ScaleMaxBscan14 = 15.  
ScaleMaxBscan15 = -40.  
ScaleMaxBscan16 = -40.  
ScaleMaxBscan17 = -40.  
ScaleMaxBscan18 = -40.  
ScaleMaxBscan19 = 60.  
ScaleMaxBscan20 = 60.  
ScaleMaxBscan21 = 60.  
ScaleMaxBscan22 = 60.  
ScaleMaxBscan23 = 60.  
ScaleMaxBscan24 = 60.  
ScaleMaxBscan25 = 4.  
ScaleMaxBscan26 = 4.  
ScaleMaxBscan27 = 1.  
ScaleMaxBscan28 = 110.  
ScaleMaxBscan29 = 50.  
ScaleMaxBscan30 = 50.  
ScaleMaxBscan31 = 1.  
ScaleMaxBscan32 = 4.
```

```
#ScaleMinPPI1 = -25.  
ScaleMinPPI1 = -15.  
ScaleMinPPI2 = -25.  
ScaleMinPPI3 = -25.  
ScaleMinPPI4 = -25.  
ScaleMinPPI5 = 0.  
ScaleMinPPI6 = 0.  
ScaleMinPPI7 = 0.  
ScaleMinPPI8 = 0.  
ScaleMinPPI9 = 0.  
ScaleMinPPI10 = 0.  
ScaleMinPPI11 = 0.  
ScaleMinPPI12 = 0.  
ScaleMinPPI13 = -45.  
ScaleMinPPI14 = -45.  
ScaleMinPPI15 = -140.
```

```
ScaleMinPPI16 = -140.  
ScaleMinPPI17 = -140.  
ScaleMinPPI18 = -140.  
ScaleMinPPI19 = 0.  
ScaleMinPPI20 = 0.  
ScaleMinPPI21 = 0.  
ScaleMinPPI22 = 0.  
ScaleMinPPI23 = 0.  
ScaleMinPPI24 = 0.  
ScaleMinPPI25 = -2.  
ScaleMinPPI26 = -2.  
ScaleMinPPI27 = -1.  
ScaleMinPPI28 = -10.  
ScaleMinPPI29 = 0.  
ScaleMinPPI30 = 0.  
ScaleMinPPI31 = 0.  
ScaleMinPPI32 = 0.
```

```
#ScaleMaxPPI1 = 25.  
ScaleMaxPPI1 = 15.  
ScaleMaxPPI2 = 25.  
ScaleMaxPPI3 = 25.  
ScaleMaxPPI4 = 25.  
ScaleMaxPPI5 = 10.  
ScaleMaxPPI6 = 10.  
ScaleMaxPPI7 = 10.  
ScaleMaxPPI8 = 10.  
ScaleMaxPPI9 = 1.  
ScaleMaxPPI10 = 1.  
ScaleMaxPPI11 = 1.  
ScaleMaxPPI12 = 1.  
ScaleMaxPPI13 = 15.  
ScaleMaxPPI14 = 15.  
ScaleMaxPPI15 = -40.  
ScaleMaxPPI16 = -40.  
ScaleMaxPPI17 = -40.  
ScaleMaxPPI18 = -40.  
ScaleMaxPPI19 = 60.  
ScaleMaxPPI20 = 60.  
ScaleMaxPPI21 = 60.  
ScaleMaxPPI22 = 60.  
ScaleMaxPPI23 = 60.  
ScaleMaxPPI24 = 60.  
ScaleMaxPPI25 = 4.  
ScaleMaxPPI26 = 4.  
ScaleMaxPPI27 = 1.
```

```
ScaleMaxPPI28 = 110.  
ScaleMaxPPI29 = 50.  
ScaleMaxPPI30 = 50.  
ScaleMaxPPI31 = 1.  
ScaleMaxPPI32 = 4.
```

```
#ScaleMinRHI1 = -25.  
ScaleMinRHI1 = -15.  
ScaleMinRHI2 = -25.  
ScaleMinRHI3 = -25.  
ScaleMinRHI4 = -25.  
ScaleMinRHI5 = 0.  
ScaleMinRHI6 = 0.  
ScaleMinRHI7 = 0.  
ScaleMinRHI8 = 0.  
ScaleMinRHI9 = 0.  
ScaleMinRHI10 = 0.  
ScaleMinRHI11 = 0.  
ScaleMinRHI12 = 0.  
ScaleMinRHI13 = -45.  
ScaleMinRHI14 = -45.  
ScaleMinRHI15 = -140.  
ScaleMinRHI16 = -140.  
ScaleMinRHI17 = -140.  
ScaleMinRHI18 = -140.  
ScaleMinRHI19 = 0.  
ScaleMinRHI20 = 0.  
ScaleMinRHI21 = 0.  
ScaleMinRHI22 = 0.  
ScaleMinRHI23 = 0.  
ScaleMinRHI24 = 0.  
ScaleMinRHI25 = -2.  
ScaleMinRHI26 = -2.  
ScaleMinRHI27 = -1.  
ScaleMinRHI28 = -10.  
ScaleMinRHI29 = 0.  
ScaleMinRHI30 = 0.  
ScaleMinRHI31 = 0.  
ScaleMinRHI32 = 0.
```

```
#ScaleMaxRHI1 = 25.  
ScaleMaxRHI1 = 15.  
ScaleMaxRHI2 = 25.  
ScaleMaxRHI3 = 25.  
ScaleMaxRHI4 = 25.  
ScaleMaxRHI5 = 10.
```

```
ScaleMaxRHI6 = 10.  
ScaleMaxRHI7 = 10.  
ScaleMaxRHI8 = 10.  
ScaleMaxRHI9 = 1.  
ScaleMaxRHI10 = 1.  
ScaleMaxRHI11 = 1.  
ScaleMaxRHI12 = 1.  
ScaleMaxRHI13 = 15.  
ScaleMaxRHI14 = 15.  
ScaleMaxRHI15 = -40.  
ScaleMaxRHI16 = -40.  
ScaleMaxRHI17 = -40.  
ScaleMaxRHI18 = -40.  
ScaleMaxRHI19 = 60.  
ScaleMaxRHI20 = 60.  
ScaleMaxRHI21 = 60.  
ScaleMaxRHI22 = 60.  
ScaleMaxRHI23 = 60.  
ScaleMaxRHI24 = 60.  
ScaleMaxRHI25 = 4.  
ScaleMaxRHI26 = 4.  
ScaleMaxRHI27 = 1.  
ScaleMaxRHI28 = 110.  
ScaleMaxRHI29 = 50.  
ScaleMaxRHI30 = 50.  
ScaleMaxRHI31 = 1.  
ScaleMaxRHI32 = 4.
```

```
ScaleMinAScope1 = -25.  
#ScaleMinAScope1 = -10.  
ScaleMinAScope2 = -25.  
ScaleMinAScope3 = -25.  
ScaleMinAScope4 = -25.  
ScaleMinAScope5 = 0.  
ScaleMinAScope6 = 0.  
ScaleMinAScope7 = 0.  
ScaleMinAScope8 = 0.  
ScaleMinAScope9 = 0.  
ScaleMinAScope10 = 0.  
ScaleMinAScope11 = 0.  
ScaleMinAScope12 = 0.  
ScaleMinAScope13 = -45.  
ScaleMinAScope14 = -45.  
ScaleMinAScope15 = -140.  
ScaleMinAScope16 = -140.  
ScaleMinAScope17 = -140.
```

```
ScaleMinAScope18 = -140.  
ScaleMinAScope19 = 0.  
ScaleMinAScope20 = 0.  
ScaleMinAScope21 = 0.  
ScaleMinAScope22 = 0.  
ScaleMinAScope23 = 0.  
ScaleMinAScope24 = 0.  
ScaleMinAScope25 = -2.  
ScaleMinAScope26 = -2.  
ScaleMinAScope27 = -1.  
ScaleMinAScope28 = -10.  
ScaleMinAScope29 = 0.  
ScaleMinAScope30 = 0.  
ScaleMinAScope31 = 0.  
ScaleMinAScope32 = 0.
```

```
ScaleMaxAScope1 = 25.  
#ScaleMaxAScope1 = 10.  
ScaleMaxAScope2 = 25.  
ScaleMaxAScope3 = 25.  
ScaleMaxAScope4 = 25.  
ScaleMaxAScope5 = 10.  
ScaleMaxAScope6 = 10.  
ScaleMaxAScope7 = 10.  
ScaleMaxAScope8 = 10.  
ScaleMaxAScope9 = 1.  
ScaleMaxAScope10 = 1.  
ScaleMaxAScope11 = 1.  
ScaleMaxAScope12 = 1.  
ScaleMaxAScope13 = 15.  
ScaleMaxAScope14 = 15.  
ScaleMaxAScope15 = -40.  
ScaleMaxAScope16 = -40.  
ScaleMaxAScope17 = -40.  
ScaleMaxAScope18 = -40.  
ScaleMaxAScope19 = 60.  
ScaleMaxAScope20 = 60.  
ScaleMaxAScope21 = 60.  
ScaleMaxAScope22 = 60.  
ScaleMaxAScope23 = 60.  
ScaleMaxAScope24 = 60.  
ScaleMaxAScope25 = 4.  
ScaleMaxAScope26 = 4.  
ScaleMaxAScope27 = 1.  
ScaleMaxAScope28 = 110.  
ScaleMaxAScope29 = 50.
```

ScaleMaxAScope30 = 50.

ScaleMaxAScope31 = 1.

ScaleMaxAScope32 = 4.

BScanThresh1 = 0.

BScanThresh2 = 0.

BScanThresh3 = 0.

BScanThresh4 = 0.

BScanThresh5 = 0.

BScanThresh6 = 0.

BScanThresh7 = 0.

BScanThresh8 = 0.

BScanThresh9 = 0.

BScanThresh10 = 0.

BScanThresh11 = 0.

BScanThresh12 = 0.

BScanThresh13 = 0.

BScanThresh14 = 0.

BScanThresh15 = 0.

BScanThresh16 = 0.

BScanThresh17 = 0.

BScanThresh18 = .1

BScanThresh19 = .1

BScanThresh20 = .1

BScanThresh21 = .1

BScanThresh22 = .1

BScanThresh23 = .1

BScanThresh24 = 0.

BScanThresh25 = 0.

BScanThresh26 = 0.

BScanThresh27 = 0.

BScanThresh28 = 0.

BScanThresh29 = 0.

BScanThresh30 = 0.

BScanThresh31 = 0.

BScanThresh32 = 0.

RHIThresh1 = 0.

RHIThresh2 = 0.

RHIThresh3 = 0.

RHIThresh4 = 0.

RHIThresh5 = 0.

RHIThresh6 = 0.

RHIThresh7 = 0.

RHIThresh8 = 0.

RHIThresh9 = 0.

RHIThresh10 = 0.
RHIThresh11 = 0.
RHIThresh12 = 0.
RHIThresh13 = 0.
RHIThresh14 = 0.
RHIThresh15 = 0.
RHIThresh16 = 0.
RHIThresh17 = 0.
RHIThresh18 = .1
RHIThresh19 = .1
RHIThresh20 = .1
RHIThresh21 = .1
RHIThresh22 = .1
RHIThresh23 = .1
RHIThresh24 = 0.
RHIThresh25 = 0.
RHIThresh26 = 0.
RHIThresh27 = 0.
RHIThresh28 = 0.
RHIThresh29 = 0.
RHIThresh30 = 0.
RHIThresh31 = 0.
RHIThresh32 = 0.

PPIThresh1 = 0.
PPIThresh2 = 0.
PPIThresh3 = 0.
PPIThresh4 = 0.
PPIThresh5 = 0.
PPIThresh6 = 0.
PPIThresh7 = 0.
PPIThresh8 = 0.
PPIThresh9 = 0.
PPIThresh10 = 0.
PPIThresh11 = 0.
PPIThresh12 = 0.
PPIThresh13 = 0.
PPIThresh14 = 0.
PPIThresh15 = 0.
PPIThresh16 = 0.
PPIThresh17 = 0.
PPIThresh18 = .1
PPIThresh19 = .1
PPIThresh20 = .1
PPIThresh21 = .1
PPIThresh22 = .1

PPIThresh23 = .1
PPIThresh24 = 0.
PPIThresh25 = 0.
PPIThresh26 = 0.
PPIThresh27 = 0.
PPIThresh28 = 0.
PPIThresh29 = 0.
PPIThresh30 = 0.
PPIThresh31 = 0.
PPIThresh32 = 0.

AScopeThresh1 = 0.
AScopeThresh2 = 0.
AScopeThresh3 = 0.
AScopeThresh4 = 0.
AScopeThresh5 = 0.
AScopeThresh6 = 0.
AScopeThresh7 = 0.
AScopeThresh8 = 0.
AScopeThresh9 = 0.
AScopeThresh10 = 0.
AScopeThresh11 = 0.
AScopeThresh12 = 0.
AScopeThresh13 = 0.
AScopeThresh14 = 0.
AScopeThresh15 = 0.
AScopeThresh16 = 0.
AScopeThresh17 = 0.
AScopeThresh18 = .1
AScopeThresh19 = .1
AScopeThresh20 = .1
AScopeThresh21 = .1
AScopeThresh22 = .1
AScopeThresh23 = .1
AScopeThresh24 = 0.
AScopeThresh25 = 0.
AScopeThresh26 = 0.
AScopeThresh27 = 0.
AScopeThresh28 = 0.
AScopeThresh29 = 0.
AScopeThresh30 = 0.
AScopeThresh31 = 0.
AScopeThresh32 = 0.

SelectedFieldBscan = ZShD
SelectedFieldBscan103 = PwSh

```
SelectedFieldPPI = ZShD  
#SelectedFieldPPI103 = ZShD
```

```
SelectedFieldRHI = ZShD  
#SelectedFieldRHI103 = ZShD
```

```
SelectedFieldA_SCOPE = ZShD  
SelectedFieldA_SCOPE103 = PwSh
```

```
BscanMinColor = white  
BscanMaxColor = white
```

```
#BscanThreshColor = black  
BscanThreshColor = white
```

```
#RhiMinColor = white  
RHIMinColor = black
```

```
RHIMaxColor = white  
#RHIMaxColor = black
```

```
RHIThreshColor = black  
#RHIThreshColor = white
```

```
# since Rhi and Ppi share the rasterizing code, they will need to be the same  
# for now; Rhi will define the wrap min and wrap max and thresh color for both  
# rhi and ppi
```

```
SelectedGifFieldBscan = ZShD  
SelectedGifFieldAscope = ZShD  
SelectedGifFieldRHI = ZShD  
SelectedGifFieldPPI = ZShD
```

```
SelectedGifFieldBscan103 = PwSh  
SelectedGifFieldAscope103 = PwSh  
#SelectedGifFieldRHI103 = PwSh  
#SelectedGifFieldPPI103 = PwSh
```

```
ScaleMinBscan1031 = -1500.  
ScaleMinBscan1032 = -1500.  
ScaleMinBscan1033 = -2500.  
ScaleMinBscan1034 = -2500.  
ScaleMinBscan1035 = 0.  
ScaleMinBscan1036 = 0.  
ScaleMinBscan1037 = 0.
```

```
ScaleMinBscan1038 = 0.  
#  
ScaleMaxBscan1031 = 1500.  
ScaleMaxBscan1032 = 1500.  
ScaleMaxBscan1033 = 4500.  
ScaleMaxBscan1034 = 4500.  
ScaleMaxBscan1035 = 1000.  
ScaleMaxBscan1036 = 10.  
ScaleMaxBscan1037 = 10.  
ScaleMaxBscan1038 = 10.  
#  
ScaleMinAScope1031 = -2500.  
ScaleMinAScope1032 = -2500.  
ScaleMinAScope1033 = -2500.  
ScaleMinAScope1034 = -2500.  
ScaleMinAScope1035 = 0.  
ScaleMinAScope1036 = 0.  
ScaleMinAScope1037 = 0.  
ScaleMinAScope1038 = 0.  
#  
ScaleMaxAScope1031 = 2500.  
ScaleMaxAScope1032 = 2500.  
ScaleMaxAScope1033 = 2500.  
ScaleMaxAScope1034 = 2500.  
ScaleMaxAScope1035 = 1000.  
ScaleMaxAScope1036 = 10.  
ScaleMaxAScope1037 = 10.  
ScaleMaxAScope1038 = 10.
```